



PATENT ABSTRACTS OF JAPAN

(11) Publication number: 2003047830 A
 (43) Date of publication of application: 18.02.2003

(51) Int. Cl. B01D 65/02
 B01D 63/06

(21) Application number: 2001238480
 (22) Date of filing: 06.08.2001

(71) Applicant: YUASA CORP
 (72) Inventor: MURAKAMI NAOKI
 TANSU SHIRO

(54) **DIPPING TYPE MEMBRANE FILTRATION
 APPARATUS AND DIPPING TYPE MEMBRANE
 FILTRATION METHOD**

(57) Abstract:

PROBLEM TO BE SOLVED: To carry out filtration of a liquid to be treated by a dipping type membrane filtration method efficiently with a simple procedure over a long period.

SOLUTION: A dipping type membrane filtration apparatus is designed for obtaining filtrate by applying a dipping type membrane filtration method to a liquid 31 to be treated which is stored in a storage tank 30, and is provided with a plurality of tubular filter membrane modules 5 each having a filtration function for the liquid to be treated 31 and an air bubble supply apparatus 9 for supplying air bubbles 14 toward the tubular filter membrane modules 5. A cover body 11 for passing the air bubbles 14 by being opened and for blocking the air bubbles 14 by being closed is provided above the tubular filter membrane module 5 and foreign substance deposited on an inlet 12 and also a cake layer stuck on the inside surface of the tubular filter membrane are removed by confining the air bubbles 14 in a filtration standstill process where the air bubbles 14 is

blocked and discharging the confined air bubbles suddenly in a filtered component removing process where the air bubbles 14 are passed.

COPYRIGHT: (C)2003,JPO

